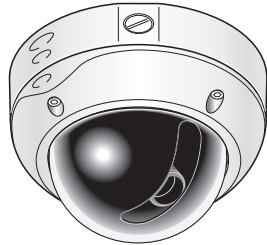
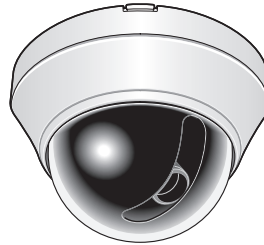


INSTRUCTION MANUAL

Color CCD Camera



VDC-DP7584/VDC-DP7585P



VCC-P7574/VCC-P7575P

Please read this manual before installing and using this camera, and always follow the instructions in it for proper use. Be sure to keep it handy for later reference.

- Refer to the supplied CD-ROM for the **French, Spanish, German and Chinese** "INSTRUCTION MANUAL".
To view the INSTRUCTION MANUAL contained in the supplied CD-ROM, you need Adobe® Reader® application. If your PC has not been installed with it, you can download it for installation from the following web site at Adobe Systems Incorporated.
<http://www.adobe.com>
- Consultez le CD-ROM fourni pour le « MANUEL D'INSTRUCTIONS » en **français, espagnol, allemand** et en **chinois**.
Pour visualiser le MANUEL D'INSTRUCTIONS contenu dans le CD-ROM fourni, l'application Adobe® Reader® vous est nécessaire. Si votre ordinateur a été installé sans cette application, vous pouvez la télécharger depuis le site Web suivant d'Adobe Systems Incorporated.
<http://www.adobe.com>

VDC-DP7584
VDC-DP7585P
VCC-P7574
VCC-P7575P

- Hacer referencia al CD-ROM que se suministra para consultar el "MANUAL DE INSTRUCCIONES" en **francés, español, alemán y chino**.
Para ver el MANUAL DE INSTRUCCIONES contenido en el CD-ROM suministrado, es necesario disponer de la aplicación Adobe® Reader®. Si el PC no tiene instalada esta aplicación, es posible descargarla para la instalación en el siguiente sitio web en Adobe Systems Incorporated.
<http://www.adobe.com>
- Die "BEDIENUNGSANLEITUNG" in den Sprachen **Französisch, Spanisch, Deutsch und Chinesisch** finden Sie auf der mitgelieferten CD-ROM.
Zum Öffnen der BEDIENUNGSANLEITUNG auf der mitgelieferten CD-ROM benötigen Sie das Programm Adobe® Reader®. Falls diese Anwendung nicht auf Ihrem PC installiert ist, können Sie das Programm unter der nachstehend angegebenen Internet-Adresse bei Adobe Systems Incorporated zur Installation herunterladen:
<http://www.adobe.com>
- 请参阅随附的光盘以了解**法语、西班牙语、德语和中文**“说明手册”。
要查看随附光盘中包含的说明手册，您需要安装有 Adobe® Reader® 应用程序。
如果您的 PC 上没有安装此应用程序，则您可以从 Adobe Systems Incorporated 的以下网站下载并进行安装。
<http://www.adobe.com>

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For the customers in US and Canada

THIS INSTALLATION SHOULD BE MADE BY A QUALIFIED SERVICE PERSON AND SHOULD CONFORM TO ALL LOCAL CODES.

Precautions

■ In case of a problem

Do not use the unit if smoke or a strange odor comes from the unit, or if it seems not to function correctly. Turn off the power immediately and disconnect the power cord, and then consult your dealer or an Authorized Sanyo Service Center.

■ Do not open or modify

Do not open the cabinet, as it may be dangerous and cause damage to the unit. For repairs, consult your dealer or an Authorized Sanyo Service Center.

■ Do not put objects inside the unit

Make sure that no metal objects or flammable substance get inside the unit. If used with a foreign object inside, it could cause a fire, a short-circuit or damage. Be careful to protect the unit from rain, sea water, etc. If water or liquid gets inside the unit, turn off the power immediately and disconnect the power cord, and then consult your dealer or an Authorized Sanyo Service Center.

■ Be careful when handling the unit

To prevent damage, do not drop the unit or subject it to strong shock or vibration.

■ Do not install this unit close to magnetic fields

The magnetic fields may result in unstable operation.

■ Protect from humidity and dust

To prevent damage, do not install the unit where there is greasy smoke or steam, where the humidity may get too high, or where there is a lot of dust.

■ Protect from high temperatures

Do not install close to stoves, or other heat sources, such as spotlights, etc., or where it could be subject to direct sunlight, as this could cause deformation, discoloration or other damage. Be careful when installing close to the ceiling, in a kitchen or boiler room, as the temperature may rise to high levels.

■ Cleaning

- Dirt can be removed from the cabinet by wiping it with a soft cloth. To remove stains, wipe with a soft cloth moistened with a soft detergent solution and wrung dry, then dry by wiping with a soft cloth.
- Do not use benzine, thinner or other chemical products on the cabinet, as this may cause deformation and paint peeling. Before using a chemical cloth, make sure to read all accompanying instructions. Make sure that no plastic or rubber material comes into contact with the cabinet for a long period of time, as this may cause damage or paint peeling.

■ Approvals: IP66 (VDC-DP7584)

Approvals: IP66/CE (VDC-DP7585P)

This unit has been certified to IP66 standards when properly installed. Use only an IP66 certified enclosure or an electrical box. Ensure all openings in enclosure are sealed as per manufacturer's instructions.

Information

■ Characteristics

- Equipped with motorized zoom pan focus auto iris lens. Thanks to its large depth of field, focused images can be obtained in a wider range of scene without intentional focusing.
- Partial masking can be applied for any part of an image you want to hide.
- Motion sensor can be enabled to detect every action of intruders.
- Detects intruders using an external switch or a motion sensor, automatically zooms in on the images, and notifies using alarm signs.
- Configurable Preference Settings with View on Screen

VDC-DP7584/VDC-DP7585P:

- Complies with the IP66 international standard for dust and water protection
- Day/Night Automatic Switching

MEMO:

This instruction manual covers four models. Any difference among the four models is indicated when necessary.

This manual describes the menu screen for the VDC-DP7584.

Differences in the menu screen among the four models are as indicated below.

Model	LANGUAGE	SHUTTER	DAY/NIGHT
VDC-DP7584	English/French/Spanish	60, 100, 250 ...	○
VDC-DP7585P	English/French/German	50, 120, 250 ...	○
VCC-P7574	English/French/Spanish	60, 100, 250 ...	—
VCC-P7575P	English/French/German	50, 120, 250 ...	—

■ Accessory

- CD-ROM for Instruction manual 1
- Installation manual
VDC-DP7584/VCC-P7574:
English, French, Spanish..... each 1
VDC-DP7585P/VCC-P7575P:
English, French, German, Chinese each 1
- Pattern sheet 1
- Clamping core 1

VDC-DP7584/VCC-P7574:

- Warranty 1

VDC-DP7584/VDC-DP7585P:

- Cushioning sheet 1
- Hexagonal wrench, Large and Small..... each 1

Useful Operations

- **Putting titles to camera images:**
⇒ OPTION → TITLE (See page 9)
- **Capturing clear image of fast-moving subject by increasing shutter speed:**
⇒ SHUTTER (See page 21)
- **Connecting to an external door switch or infrared sensor:**
⇒ OPTION → ALARM (See page 28)
- **Hiding partial image for privacy protection:**
⇒ OPTION → PRIVACY MASK (See page 26)
- **Adjusting a zoom simply:**
⇒ Use Select button (See page 5)
- **VDC-DP7584/VDC-DP7585P**
Switching between “color” and “black-and-white” mode of DAY/NIGHT function using external switch, etc.:
⇒ DAY/NIGHT (See page 23)

WEEE Symbol Information



Please note:

Your SANYO product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please dispose of this equipment at your local community waste collection/recycling centre.

In the European Union there are separate collection systems for used electrical and electronic products.

Please help us to conserve the environment we live in!

This symbol mark and recycle system are applied only to EU countries and not applied to the countries in the other area of the world.

Accessing the Main Menu

You can configure various adjustments and preference settings on the monitor screen.

☞ In this manual, the buttons and their names on the camera are used for description.

■ Using the buttons on the base circuit board

Open the dome cover. Place the dome cover back once you have finished the settings. (Refer to the Installation Manual.)

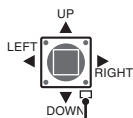
Getting Started



SET

SET button

Press and hold the button to enter into the Main menu, or perform other operations such as determining a selected value during the settings.



UP
LEFT
RIGHT
DOWN

Select button (UP, DOWN, RIGHT, LEFT)

Press the button up and down or side to side to select an item or set up.

- Press and hold the button to continually change the items that appear.

Simple zoom adjustment

While the camera captures an image, you can adjust Zoom (◀: Wide or ▶: Tele).

Sync. lamp

You can set the “SYNC”-(INT/L-L) without displaying the Main menu on the monitor.

- ① While this lamp is turned off, the Main menu is not displayed, or otherwise the cursor is located on the option other than “SYNC”.
In that case, press and hold the SET button to enter into the Main menu, or press the Select button to UP or DOWN to turn on the lamp.
- ② Once the lamp turns on, press the Select button to RIGHT or LEFT.
A lighted lamp indicates that “INT” is selected, while a flashing lamp indicates “L-L”.

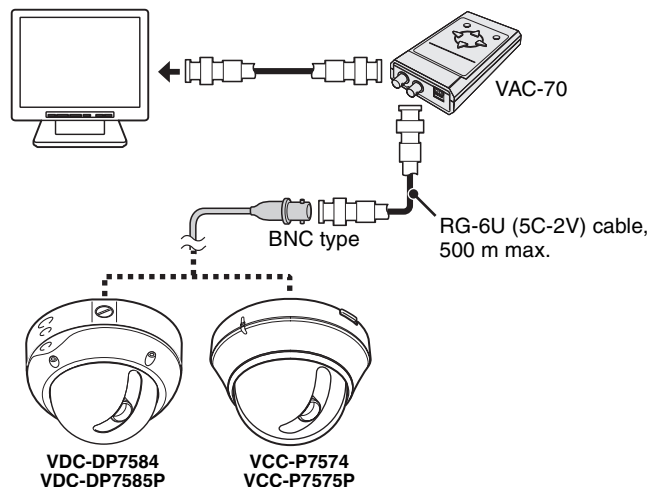
MEMO: To check the image on the monitor near the camera unit, connect the MONITOR OUT pin and the GND pin on the base circuit board to a monitor using an alligator clip cable.

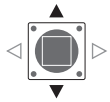
■ Using the Camera Control Unit (VAC-70: Separately ordered)

Camera can be controlled remotely during setting or adjustment.

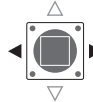
- Please refer to the instruction manual for VAC-70.

Note: Make sure to disconnect the unit after setting or adjustment is completed.





Indicates to press the Select button up and down to select an item.



Indicates to press the Select button side to side to switch over to other values.

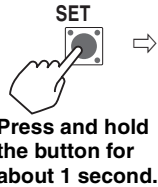


Indicates to press the SET button for decision.

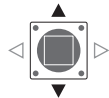
An Example for Basic Operation for Settings and Adjustments

1 Selecting item.

Main Menu

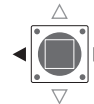


▷SYNC	INT
BLC	OFF
IRIS	SET ↓
WHITE BALANCE	ATW
AGC GAIN	NORM
GAMMA	0.45
SHUTTER	60
APERTURE	HIGH
DAY/NIGHT	AUTO ↓
OPTION	SET ↓
PRESET	OFF
MENU	END



Press the Select button UP and DOWN to select the item.

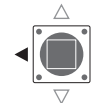
2 Specifying values.



SYNC	INT
BLC	OFF
IRIS	SET ↓
▷WHITE BALANCE	ATW ↓
AGC GAIN	NORM

Press the Select button RIGHT and LEFT to switch over to other values.

■ When (↓) mark displays at the right end of the item



SYNC	INT
BLC	OFF
IRIS	SET ↓
▷WHITE BALANCE	AWC ↓
AGC GAIN	NORM



Note: After the expiration of a predetermined time interval (3 minutes) without any operation, the settings screen goes off automatically and returns to normal monitoring screen.

Accessing the Main Menu

3 Closing the setting screen.

Once the settings are complete, set "MENU" to "END" and press the SET button.



- If you press the SET button while "BACK" is selected, the previous screen will reappear.

■ To Reset Settings (Factory Default Settings)

Select "PRESET" and choose "ON" instead of "OFF", and press the SET button.



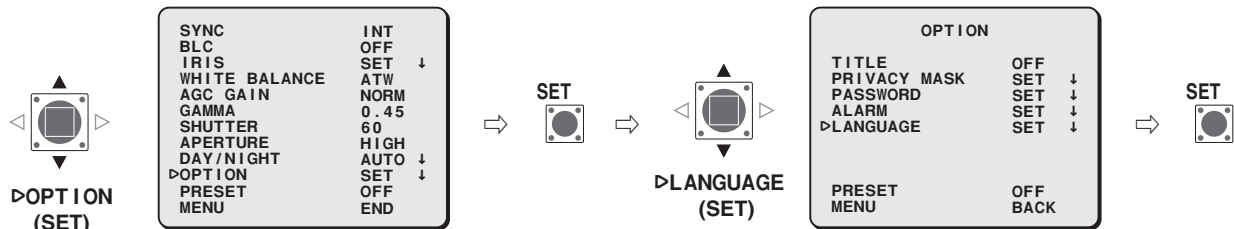
Note: To reset all the settings, set "PRESET" to "ON" in the Main menu and press the SET button. (The PRIVACY MASK and PASSWORD will not be initialized.)

▷SYNC	INT
BLC	OFF
IRIS	SET ↓
WHITE BALANCE	ATW
AGC GAIN	NORM
GAMMA	0.45
SHUTTER	60
APERTURE	HIGH
DAY/NIGHT	AUTO ↓
OPTION	SET ↓
PRESET	OFF
MENU	END

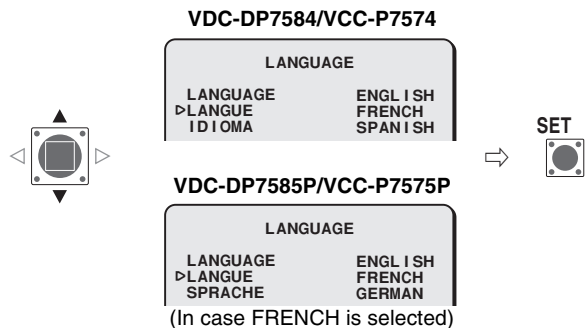
Items	Settings	See page
SYNC	Adjusting Synchronization	13
BLC	Setting for Backlight Compensation	14
IRIS	Adjusting Iris Level	15
WHITE BALANCE	Adjusting White Balance	16
AGC GAIN	Setting for Gain	19
GAMMA	Adjusting Gamma	20
SHUTTER	Setting for Shutter Speed	21
APERTURE	Adjusting Subject Outline	22
• VDC-DP7584/VDC-DP7585P		
DAY/NIGHT	Setting for Day/Night (Color/Black-and-White/Auto) Function	23
OPTION	Setting for Camera Name	9
	Privacy Masking	26
	Password	11
	Input of Alarm Signal	28
	User's Language	8

Selecting Display Language <LANGUAGE>

You can change the language displayed on the settings and adjusting screens. (Default setting: ENGLISH)

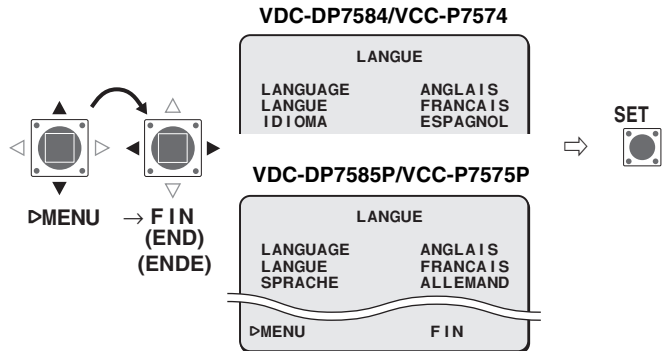


1 Select a language and press the SET button.



⇒ Pressing the SET button will immediately change the screen title and the language on the right.

2 Set "MENU" to "FIN" ("END" or "ENDE") and press the SET button.

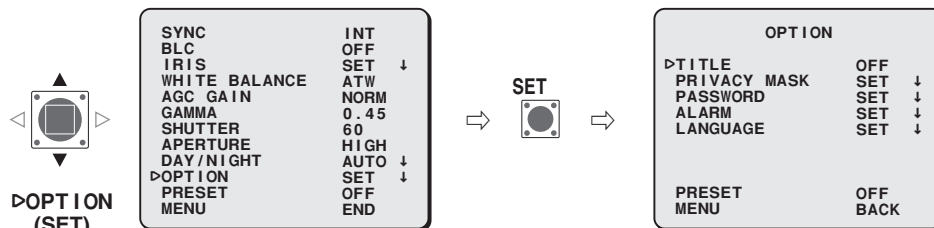
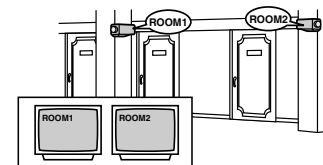


⇒ Finishes the setting screen.

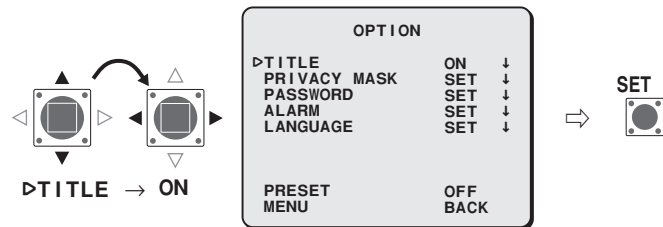
- If you press the SET button while "RETOUR" ("BACK", "ATRAS" or "ZURUECK") is selected, the previous screen will reappear.

Naming Cameras <TITLE>

You can give a name (title) to each camera. The specified names are displayed on the monitor so that you can easily distinguish the monitoring images when you use multiple cameras.



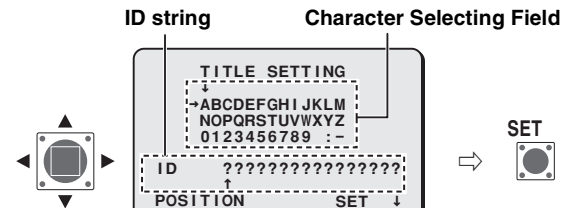
1 Set “TITLE” to “ON” and press the SET button.



⇒ The “TITLE SETTING” screen appears.

2 Choose a character(s) from the “Character Selecting Field”.

A character is selectable when two arrows, (→) and (↓), point at the character.



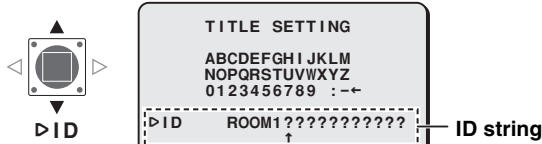
⇒ The characters are displayed starting from (↑) in the “ID string”.

- You can enter up to 16 characters.

MEMO: If you want to overwrite the character, select “ID” and move (↑) onto it in the “ID string”, and then choose any new letter.

3 Repeat step 2 to complete the name and select “ID”.

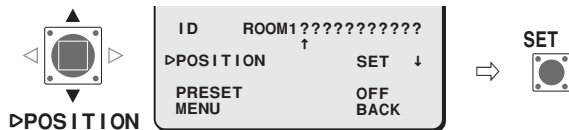
Example: ROOM1



- The letters “???.?” do not appear on the monitoring screen, but if you select “ON” for the “TITLE” and then enter no letter at all, the monitor will show you “???.?”.

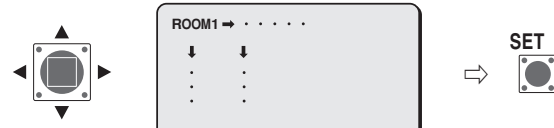
MEMO: If you want the name to be displayed on the monitor in two lines, insert the line feed mark (↵) in the “ID string” wherever you want to start a new line. On the monitor screen, the name will be displayed in two lines. You can enter up to 16 characters including the line feed mark (↵).

4 Select “POSITION” – “SET” and press the SET button.



⇒ On the normal monitoring screen, the name will be displayed.

5 On the monitor screen, determine the location where the name should be displayed by pressing the Select button up-down or side to side; and then press the SET button.



⇒ Returns to the settings screen.

6 Set “MENU” to “END” and press the SET button.

⇒ Finishes the settings screen and display the name on the normal monitoring screen.

- If you want to return to the previous screen, select “BACK” and press the SET button.

■ To delete the name specified:

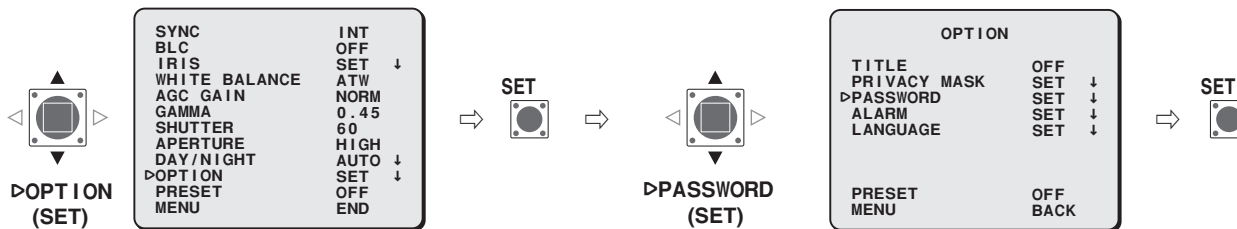
Set “PRESET” to “ON”, and press the SET button.

⇒ All the characters will be displayed with “?”.

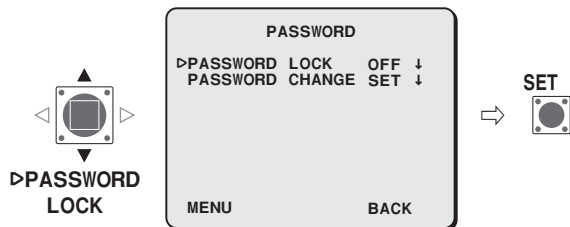
- MEMO:**
- If an alarm signal is input, the camera name on the screen will blink during the time that has been set in “DURATION” (See page 32). When the camera name is not specified, “???.?” will blink.
 - When masking setting is “ON”, the camera name will not be displayed.

Password Lock Setting/Cancelling <PASSWORD>

You can lock the accessing the Main menu by specifying a password. You will be prompted to enter the password to access the Main menu.

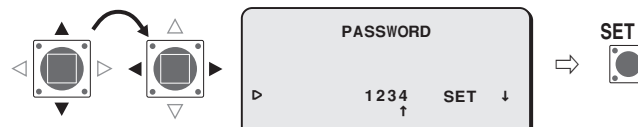


1 Select "PASSWORD LOCK" and press the SET button.



⇒ The "PASSWORD (????)" screen appears.

2 Enter the password (default: 1234) and press the SET button.



⇒ You will see the "OK" message.

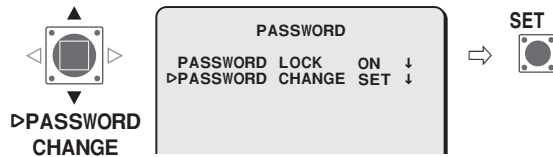
Note: If you enter an incorrect password, you will see the "NG" message. If you fail to enter the valid password three times successively, the prompt display will disappear.

3 Press the SET button.

⇒ Displays to the "PASSWORD LOCK" – "ON".

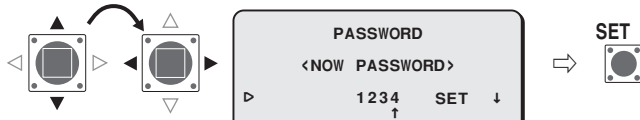
- "1234" is a factory-preset password; it is recommended you change it to your own password. Advance to step **4**.
- If you want to finish the setting, advance to step **8**.

- 4** Select “PASSWORD CHANGE” and press the SET button.



⇒ The <NOW PASSWORD> “????” screen appears.

- 5** Enter the current password and press the SET button.



⇒ The <NEW PASSWORD> “????” screen appears.

- 6** Enter a new password (4 numerical values) and press the SET button.

✎ Write down the new password before you forget it.
⇒ You will see the “OK” message.

- 7** Press the SET button.

⇒ Returns to the “PASSWORD” screen.

- 8** Set “MENU” to “END” and press the SET button.

⇒ Finishes the setting screen and returns to the normal monitoring screen.

- If you want to return to the previous screen, select “BACK” and press the SET button.

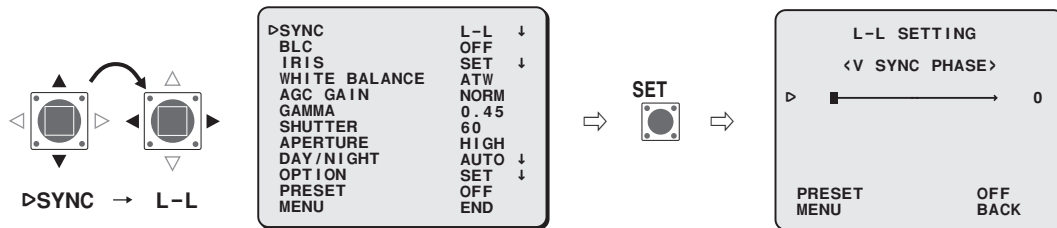
■ To cancel the password lock

Press the SET button on “PASSWORD LOCK” – “ON”, and then enter the password. You will see “OFF” instead of “ON”.

Adjusting Synchronization Error <SYNC>

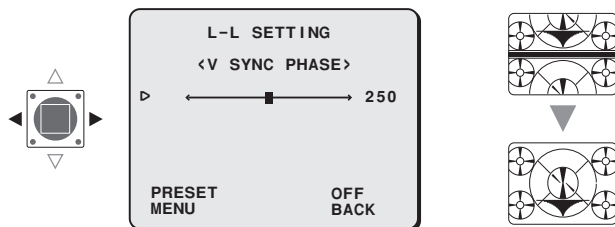
By default, the synchronization adjustment for the camera is performed internally (INT). However, you must make adjustments in the Line Lock (L-L) Setting screen, if the monitor screen seems out of sync after switching over among multiple cameras using AC 24 V.

Note: The Line Lock setting is not available for DC 12 V operation.



L-L SETTING (Line Lock)

1 Adjusting Synchronization (0 – 524).



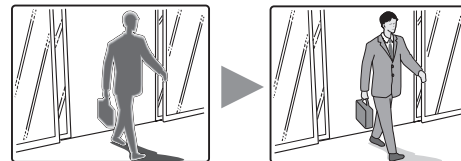
- Make adjustments so that the vertical synchronization of the monitor screen does not move up or down.

2 Set “MENU” to “END” and press the SET button.

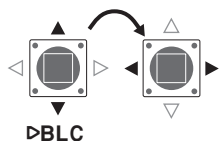
- ⇒ Finishes the setting screen and returns to the normal monitoring screen.
- If you want to return to the previous screen, select “BACK” and press the SET button.

Backlight Compensation <BLC>

If the images of subjects are not clear because of backlight, correct it by adjusting conditions or changing correction method.



1 Select “BLC” and specify a correction method.



SYNC	INT
▷BLC	OFF
IRIS	SET
WHITE BALANCE	ATW
AGC GAIN	NORM
GAMMA	0.45
SHUTTER	60
APERTURE	HIGH
DAY/NIGHT	AUTO
OPTION	SET
PRESET	OFF
MENU	END

2 Set “MENU” to “END” and press the SET button.

⇒ Finishes the setting screen and returns to the normal monitoring screen.

■ CENT (Center zone metering)

Correction is made based on the optical measurement that is focused on the central area of the screen (The image of subject to be corrected is located in the center of the screen).

■ MULT1 (Multi-spot metering, Normal mode)

Correction is made based on the optical measurement and assessment of the entire screen (The image of subject to be corrected is not limited to a center of the screen location).

■ MULT2 (Multi-spot metering, High mode)

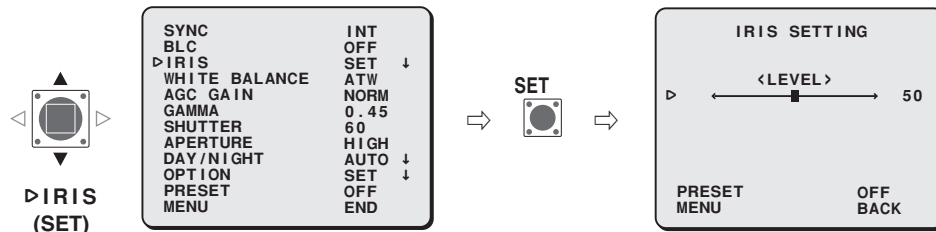
Compared to MULT1, faster backlight correction is possible against a lesser amount of light.

■ OFF

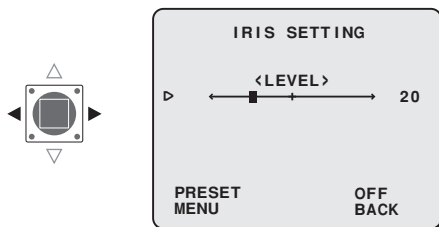
No correction is performed for backlight.

Adjusting Iris Level <IRIS>

If you need to adjust the brightness follow the steps below.



1 Adjust the brightness (iris) (0 – 100).



- The greater the number, the brighter it gets.

2 Set “MENU” to “END” and press the SET button.

⇒ Finishes the settings screen and returns to the normal monitoring screen.

- If you want to return to the previous screen, select “BACK” and press the SET button.

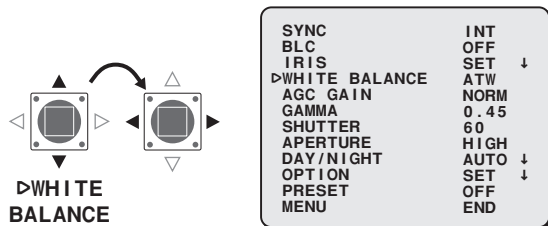
Note:

- Under extremely bright lighting, unfavorable phenomena may occur such as swaths of smear on the screen, because light intensity entering the lens is too high to be controlled. Reduce the intensity by changing the angle of the lighting source or by other means.
- If the images of subjects under fluorescent lighting are flickering, replace fluorescent lighting with incandescent lighting.

Adjusting White Balance <WHITE BALANCE>

With its default Auto-tracing White Balance (ATW) setting, this unit is able to obtain natural colors even when the light source is changed. However, you may manually change the white balance settings or its mode to obtain better tone, especially when the screen color does not match actual objects.

1 Select "WHITE BALANCE" and specify a mode.



2 For advanced settings (AWC or MWB), press the SET button.

- ⇒ Each corresponding setting screen will appear.
- Advance to next page when selecting "AWC".
Advance to page 18 when selecting "MWB".

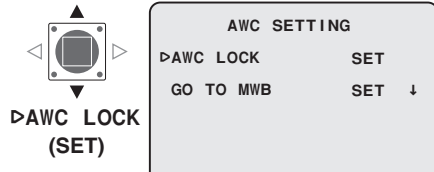
3 Set "MENU" to "END" and press the SET button.

- ⇒ Finishes the setting screen and returns to the normal monitoring screen.

- **ATW (Auto-Tracing White balance)**
Automatic setting for white balance.
- **AWC (One-Push Adjustment): (See next page)**
Adjusts white balance by shooting white paper or wall.
- **3200 (Halogen light or incandescent lamp, etc.) (Fixed)**
Targeted at around 3200 K of color temperature.
- **5600 (Daytime sunlight) (Fixed)**
Targeted at around 5600 K of color temperature.
- **FLUO (Fluorescent lamp) (Fixed)**
Targeted at around 4200 K of color temperature.
- **MWB (Manual White Balance): (See page 18)**
Fine-adjusts red and blue manually.

AWC SETTING (One-Push Adjustment)

1 Select "AWC LOCK" – "SET".



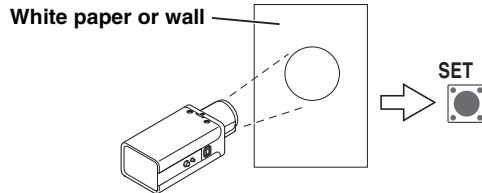
■ To perform fine adjustment of color

In the "AWC SETTING" screen, select "GO TO MWB" – "SET", and press the SET button.

⇒ The "MWB SETTING" screen appears. Specify values manually. (See next page)

MEMO: Transferring to the "MWB SETTING" through "GO TO MWB", white balance mode (see page 16) will be changed to "MWB".

2 Point a camera to a white paper or wall to project an image on the whole screen, and press the SET button.



⇒ The cursor "▷" lights off, and white balance adjustment will start. The adjustment will end after about 2 seconds when "▷" lights again.

- If the adjustment does not yield a satisfactory result, press the SET button again.

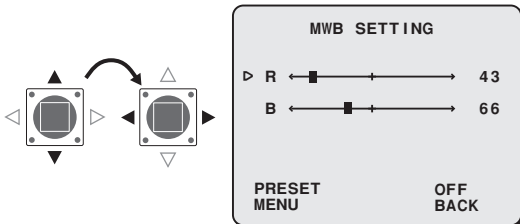
3 Set "MENU" to "END" and press the SET button.

⇒ Finishes the settings screen and returns to the normal monitoring screen.

- If you want to return to the previous screen, select "BACK" and press the SET button.

MWB SETTING (Manual White Balance)

1 Select “R” or “B” to adjust tint (0 – 255).



R : Adjusting Red

B : Adjusting Blue

- The greater the number, the deeper the tint becomes.

2 Set “MENU” to “END” and press the SET button.

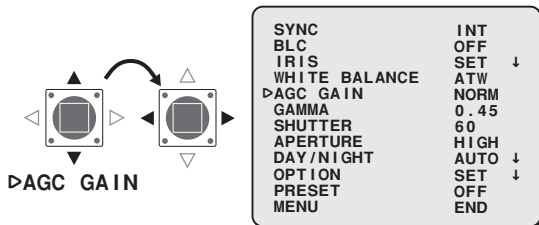
⇒ Finishes the settings screen and returns to the normal monitoring screen.

- If you want to return to the previous screen, select “BACK” and press the SET button.

Setting Gain Value <AGC GAIN>

If you need to adjust the sensitivity in dark places (AGC*), follow steps below.

1 Select "AGC GAIN" and specify a mode.



■ NORM

Normal setting

■ HIGH (For a dark subject)

Setting with which a bright image is obtained in a lower illuminance than the NORM setting.

- This setting causes noise generation and a grainy image.

■ OFF

Fixed gain setting

2 Set "MENU" to "END" and press the SET button.

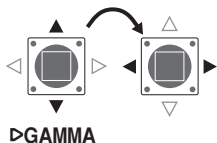
⇒ Finishes the settings screen and returns to the normal monitoring screen.

*AGC (Auto Gain Control) is a function to adjust automatically the gain of the Video signal from the camera so that an optimum signal level is obtained according to brightness of the object.

Correcting Gamma Characteristic <GAMMA>

Change the mode for Gamma correction*.

1 Select "GAMMA" and specify a mode.



SYNC	INT
BLC	OFF
IRIS	SET
WHITE BALANCE	ATW
AGC GAIN	NORM
▷GAMMA	0.45
SHUTTER	60
APERTURE	HIGH
DAY/NIGHT	AUTO
OPTION	SET
PRESET	OFF
MENU	END

- 0.45
Gamma value of $\gamma = 0.45$
- 1
Gamma value of $\gamma = 1$

2 Set "MENU" to "END" and press the SET button.

⇒ Finishes the setting screen and returns to the normal monitoring screen.

* About Gamma correction

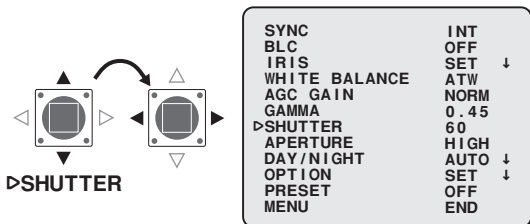
Gamma (γ) is a value representing a responsiveness characteristic of image contrast. Every input and output device of image data has its own Gamma value; the overall Gamma value must be corrected to be equal to 1. If a CRT monitor has a Gamma value of 2.2, for example, the value for this unit must be corrected to 0.45 ($2.2 \times 0.45 \approx 1$).

Specifying Shutter Speed <SHUTTER>

You can specify the electronic shutter speed to capture fast-moving subjects.

Note: With the increase in shutter speed number, faster movement can be captured, though the image becomes darker.

1 Select “SHUTTER” and specify a shutter speed.



VDC-DP7584/VCC-P7574

- Select from: 60, 100, 250, 500, 1000, 2000, 4000, and 10000 (e.g., 60 refers to 1/60 second)

VDC-DP7585P/VCC-P7575P

- Select from: 50, 120, 250, 500, 1000, 2000, 4000 and 10000 (e.g., 50 refers to 1/50 second)

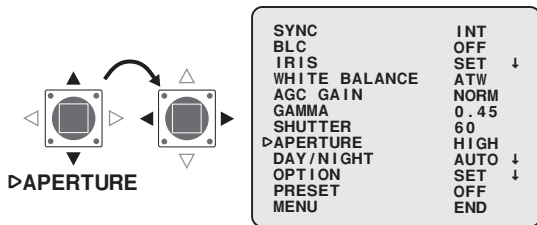
2 Set “MENU” to “END” and press the SET button.

⇒ Finishes the settings screen and returns to the normal monitoring screen.

Accentuating Subject Outline <APERTURE>

By specifying the APERTURE* setting, you can accentuate the outline of the subject when its image is blurred and unidentifiable.

1 Select "APERTURE" and specify a mode.



2 Set "MENU" to "END" and press the SET button.

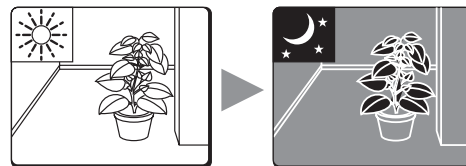
⇒ Finishes the setting screen and returns to the normal monitoring screen.

- **OFF**
No accentuating is performed for aperture.
- **NORM**
Normal setting
- **HIGH**
Setting with which the outline becomes crisper than the NORM setting.
- **Hlpls (High plus)**
Setting with which the outline becomes crisper than the HIGH setting.

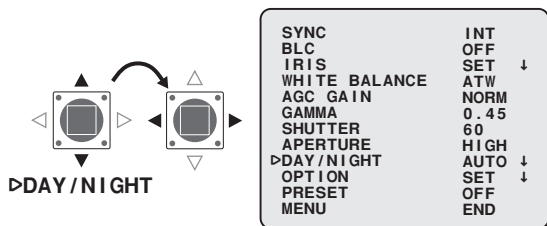
* Aperture means outline correction. The more the outline is highlighted, the higher the apparent resolution looks.

Adjusting DAY/NIGHT Function <DAY/NIGHT>

The DAY/NIGHT function automatically switches over between COLOR and B/W mode depending on the ambient brightness; for example, choosing COLOR mode during daytime, and B/W mode for nighttime monitoring with its increased sensitivity in a darker environment. “AUTO” is preselected by default, which provides an automatic switch feature to detect the ambient darkness. As appropriate for any specific environment, you can fix the mode to either COLOR or B/W, and adjust the way the switching function works.



1 Select “DAY/NIGHT” and specify a mode.



⇒ Image switches immediately after the selection is made.

Note: During the switching operation, you may hear switch-over noise inside the camera or see a distorted picture, but these are not signs of trouble.

2 For advanced settings (AUTO or B/W), press the SET button.

⇒ Each corresponding settings screen will appear.

- Advance to next page when selecting “AUTO”.
Advance to page 25 when selecting “B/W”.

■ AUTO: (See next page)

Automatically switches between COLOR and B/W mode depending on the ambient brightness. (DAY/NIGHT function)

■ COLOR

Color image on a steady basis; suitable for always bright location or conditions.

■ B/W (Black-and-White): (See page 25)

B/W image on a steady basis; suitable when sensitivity is prioritized.

3 Set “MENU” to “END” and press the SET button.

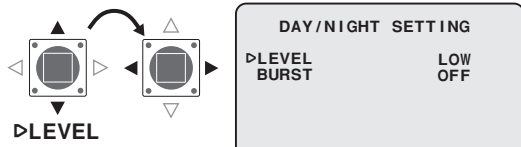
⇒ Finishes the setting screen and returns to the normal monitoring screen.

MEMO: If a communication option board (VA-50ST) is connected: AUX command issued from the control devices can switch modes.
If a network option board (VA-50LAN) is connected: AUX command issued from the control panel on the web browser can switch modes.

AUX1: Color AUX2: Black-and-White AUX3: Auto

DAY/NIGHT SETTING-AUTO

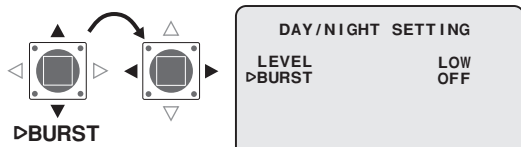
- 1** Select “LEVEL” and specify a level for DAY/NIGHT switching.



LOW : Switches in darker conditions; i.e., color shot is preferred so that it does not switch from COLOR to B/W until it gets dark.

HIGH : Switches in brighter conditions; i.e., black-and-white shot is preferred so that switching from COLOR to B/W can easily occur when it gets a little bit dark.

- 2** Set “BURST” to “ON” or “OFF” for the burst signal*.



ON : This is effective if you observe any disturbance of picture caused by switching from color to black-and-white mode of a monitor, in particular when peripheral devices such as a switcher unit are connected.

OFF : The burst signals are unused.

- 3** Set “MENU” to “END” and press the SET button.

⇒ Finishes the settings screen and returns to the normal monitoring screen.

- If you want to return to the previous screen, select “BACK” and press the SET button.

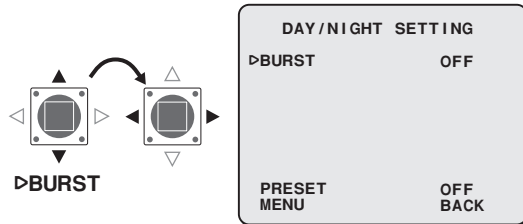
Note:

- If an infrared lighting system is used, the B/W mode may switch to COLOR when a subject reflects the light intensely. Set the infrared system in an appropriate location that does not affect the shot.
- The motion sensor detection will be interrupted during switching over from B/W to COLOR mode and from COLOR to B/W mode.

* The burst signals are color synchronization signals required for reproducing color.

DAY/NIGHT SETTING-B/W (Black-and-white)

- 1** Set “BURST” to “ON” or “OFF” for the burst signal*.



- ON** : This is effective if you observe any disturbance of picture caused by switching from color to black-and-white mode of a monitor, in particular when peripheral devices such as a switcher unit are connected.
- OFF** : The burst signals are unused.

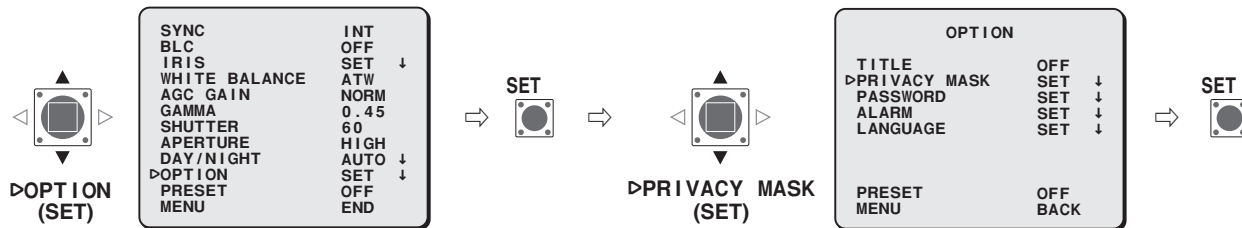
- 2** Set “MENU” to “END” and press the SET button.

- ⇒ Finishes the settings screen and returns to the normal monitoring screen.
- If you want to return to the previous screen, select “BACK” and press the SET button.

* The burst signals are color synchronization signals required for reproducing color.

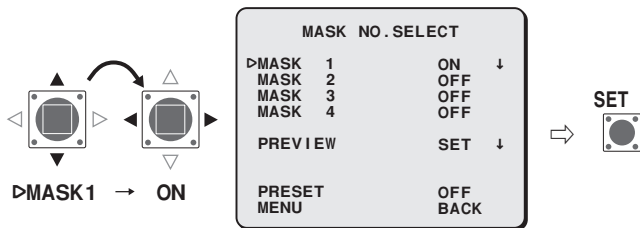
Hiding Partial Image <PRIVACY MASK>

If privacy protection is required for any shot, apply the masking feature for any position to be prevented from being presented.



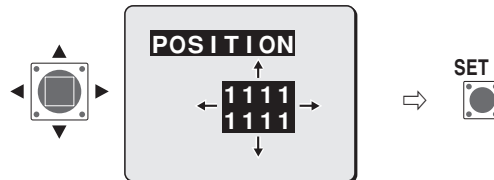
Privacy Masking Setting

1 Set “MASK 1” to “ON” and press the SET button.



⇒ The “POSITION” screen appears.

2 Locate the upper left corner of an area for which you want to mask, and then press the SET button.

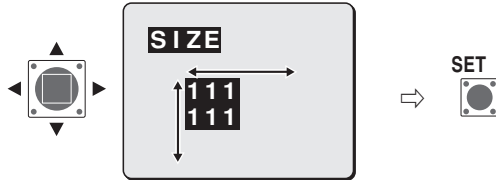


⇒ The “SIZE” screen appears.

MEMO: Here, determine the upper left position of the masking area. Pressing the button further when the right end or the bottom end of the displayed area hits an edge will scale down the area size, but you can set your preferred size in step **3**.

Privacy Masking Setting (continued)

3 Specify the masking size and press the SET button.

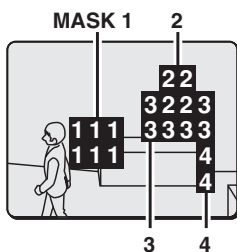


- From the datum point at the upper left corner of the area, the size can be scaled up or down, as well as side to side.
- ⇒ Returns to the "MASK NO.SELECT" screen.
To repeat a masking setting, repeat steps from 1 to 3.

■ To preview the entire specified "MASK NO."

- Select "PREVIEW" and press the SET button.
- To return to the previous screen, press the SET button.

(Example: 4 maskings)



MEMO:

When multiple masking positions overlap, the masking setting with the smaller "MASK NO." will be preceded.

■ To cancel the masking setting

Change "ON" of the MASK number to "OFF" in "MASK NO.SELECT" screen.

■ To change the previously specified masking setting

Choose "ON" instead of "OFF" in "MASK NO.SELECT" screen, and press the SET button.

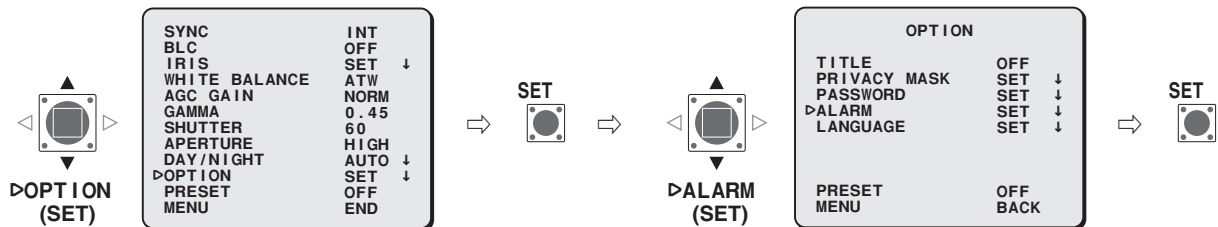
After canceling the previous masking setting, set the masking position again.

4 Set "MENU" to "END" and press the SET button.

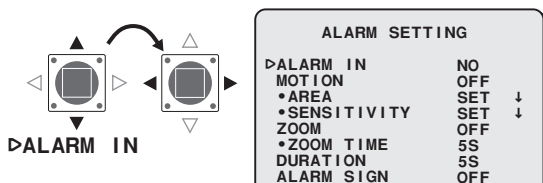
- ⇒ Finishes the settings screen and returns to the normal monitoring screen.
The specified masking position appears on the screen.
- If you want to return to the previous screen, select "BACK" and press the SET button.

Specifying Alarm Input <ALARM>

If you have connected an external door switch or an infrared sensor, specify the following settings. This unit has a built-in motion sensor, which outputs alarm signals when any moving subject, such as a would be intruder, is detected.



1 Select "ALARM IN" and specify a polarity for the signal.



NO : Normal Open (When closed, detects an alarm input.)

NC : Normal Close (When opened, detects an alarm input.)

2 Set "MENU" to "END" and press the SET button.

⇒ Finishes the settings screen and returns to the normal monitoring screen.

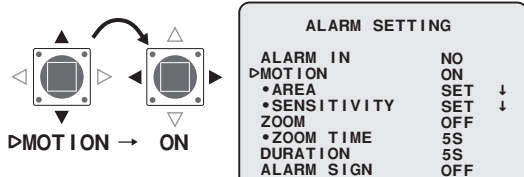
- If you want to return to the previous screen, select "BACK" and press the SET button.

■ About an alarm sign

- Alarm sign indicates when an alarm signal is input (See page 32).
- You can use the alarm setting so that the displayed image will be zoomed in when the signal is input (See page 31).

Motion Sensor Setting

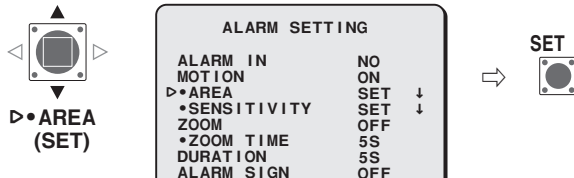
- 1 Select "MOTION" and specify "ON".



ON : Detects when the motion sensor responded.

OFF : The motion sensor is unused.

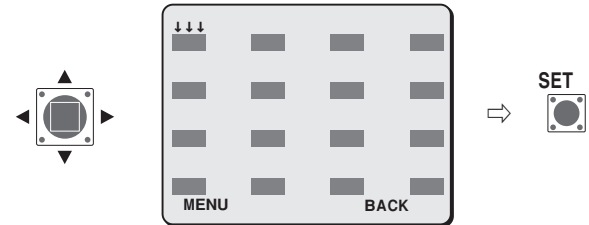
- 2 Select "•AREA" and press the SET button.



⇒ The screen for motion-detected area appears.

- 3 Move the cursor to the area where should not be motion-detected and press the SET button to change "----".

e.g., frequently moving objects such as trees swaying in the wind as well as flickering.



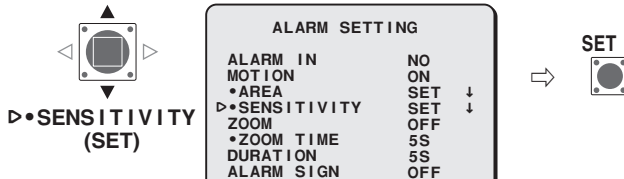
- 4 Set "MENU" to "BACK" and press the SET button.

⇒ Returns to the "ALARM SETTING" screen.

- You should adjust the detection sensitivity if false alarms occur very frequently (See next page).

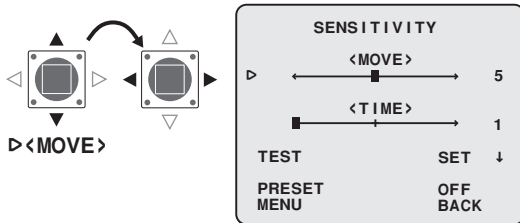
Motion Sensor Setting (continued)

- 5** Select “•SENSITIVITY” and press the SET button.



⇒ The “SENSITIVITY” screen appears.

- 6** Select “<MOVE>” and specify a sensitivity level (1 – 10).



⇒ The greater the number, the lower the responsiveness to movement becomes.

- 7** Select “<TIME>” and specify a detection time of duration (1 – 60).

⇒ The greater the number, the lower the detectability against fast-moving subjects.

■ To confirm the sensitivity of the motion detection

Select “TEST” and press the SET button.

- Make sure that the motion-detected area is properly specified by placing your hand or other objects in front of the lens.

To finish the test, press the SET button.

- 8** Set “MENU” to “END” and press the SET button.

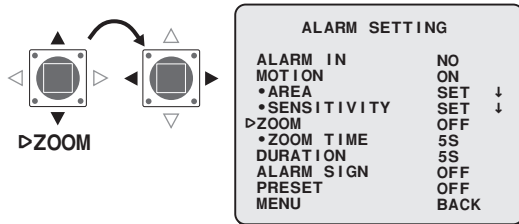
⇒ Finishes the settings screen and returns to the normal monitoring screen.

- If you want to return to the previous screen, select “BACK” and press the SET button.

MEMO: Alarm sign indicates when any moving subject is detected (See page 32).

ZOOM setting

- 1 Select “ZOOM” and specify the zoom factor for alarm detection (included motion-detected).



- Select from: OFF (no zoom), x1.0, x1.4, x2.0, x2.6

- 2 Select “•ZOOM TIME” and specify duration time for zooming (if you specified “ZOOM” to other than “OFF” in step 1).

- Select from: 5S, 10S, 15S, 20S, 30S, 1M, 2M, 3M, 4M, 5M
(S = second, M = minute)

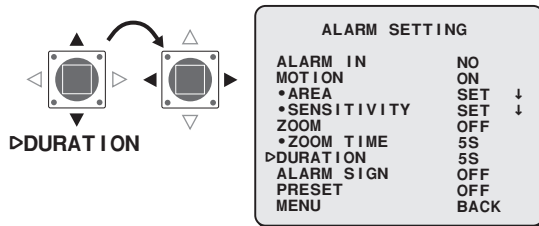
Note: You should not specify longer “ZOOM TIME” than “DURATION” time. Otherwise, “DURATION” setting will change correspondingly. Confirm both times before specifying proper values.

- 3 Set “MENU” to “END” and press the SET button.

- ⇒ Finishes the settings screen and returns to the normal monitoring screen.
- If you want to return to the previous screen, select “BACK” and press the SET button.

DURATION setting

- 1 Select “DURATION” and specify the duration for the alarm sign indication (a time until next alarm input becomes enabled).



- Select from: 5S, 10S, 15S, 20S, 30S, 1M, 2M, 3M, 4M, 5M
(S = second, M = minute)

Note: You should not specify shorter “DURATION” than “ZOOM TIME”.
Otherwise, “ZOOM TIME” setting will change correspondingly.
Confirm both times before specifying proper values.

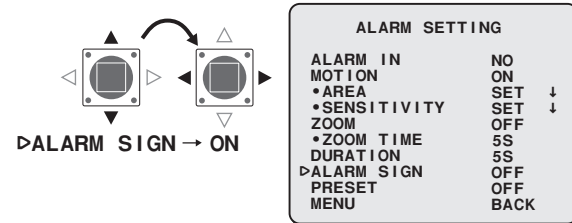
- 2 Set “MENU” to “END” and press the SET button.

⇒ Finishes the settings screen and returns to the normal monitoring screen.

- If you want to return to the previous screen, select “BACK” and press the SET button.

ALARM SIGN setting

- 1 Select “ALARM SIGN” and specify “ON”.



- ON** : When an alarm signal is input, the camera name on the screen will blink during the time that has been set in “DURATION”.
When masking setting is “ON”, “A” will be displayed on all specified masking positions.
Alarm sign indicates when motion sensor is detected (See page 29).
- OFF** : The alarm sign is unused.

- 2 Set “MENU” to “END” and press the SET button.

⇒ Finishes the settings screen and returns to the normal monitoring screen.

- If you want to return to the previous screen, select “BACK” and press the SET button.

Troubleshooting

Before seeking repair service, please review the following points first. If the trouble persists, consult your dealer or an Authorized Sanyo Service Center.

Symptom	Items to Be Checked
No images available:	<ul style="list-style-type: none"> Is the coaxial cable connected securely? Is lighting appropriate? Is power supplied? (See "CONNECTIONS" in the installation manual.) Are power supply and voltage appropriate? (See "CONNECTIONS" in the installation manual.)
Distorted images:	<ul style="list-style-type: none"> Is sync adjusted by the line lock? (See page 13)
Unclear images:	<ul style="list-style-type: none"> Is the lens transparent without blur? (Use commercial cleaning paper and liquid to wipe out.) Is the iris adjusted? (See page 15)
Unrecognizable subject in the backlight:	<ul style="list-style-type: none"> Is backlight correction specified? (See page 14)
Poor color images:	<ul style="list-style-type: none"> Is white balance adjusted? (See page 16)
Inappropriate contrast or outline of images:	<ul style="list-style-type: none"> Did you try Gamma characteristic adjustment? (See page 20) Is the aperture adjusted? (See page 22)

Symptom	Items to Be Checked
Frequent false detection by Motion Sensor:	<ul style="list-style-type: none"> Is detection sensitivity adjusted? (See page 30)
VDC-DP7584/VDC-DP7585P	
Distorted picture after switching from COLOR to B/W mode of DAY/ NIGHT:	<ul style="list-style-type: none"> Is "ON" specified for "BURST"? (See pages 24, 25)

Service

The camera is a precision instrument. Handle it carefully and always follow the safety precautions. If the camera requires service, never try to repair it yourself or open the casing.

For servicing, maintenance, or repairs, consult your dealer or an Authorized Sanyo Service Center.

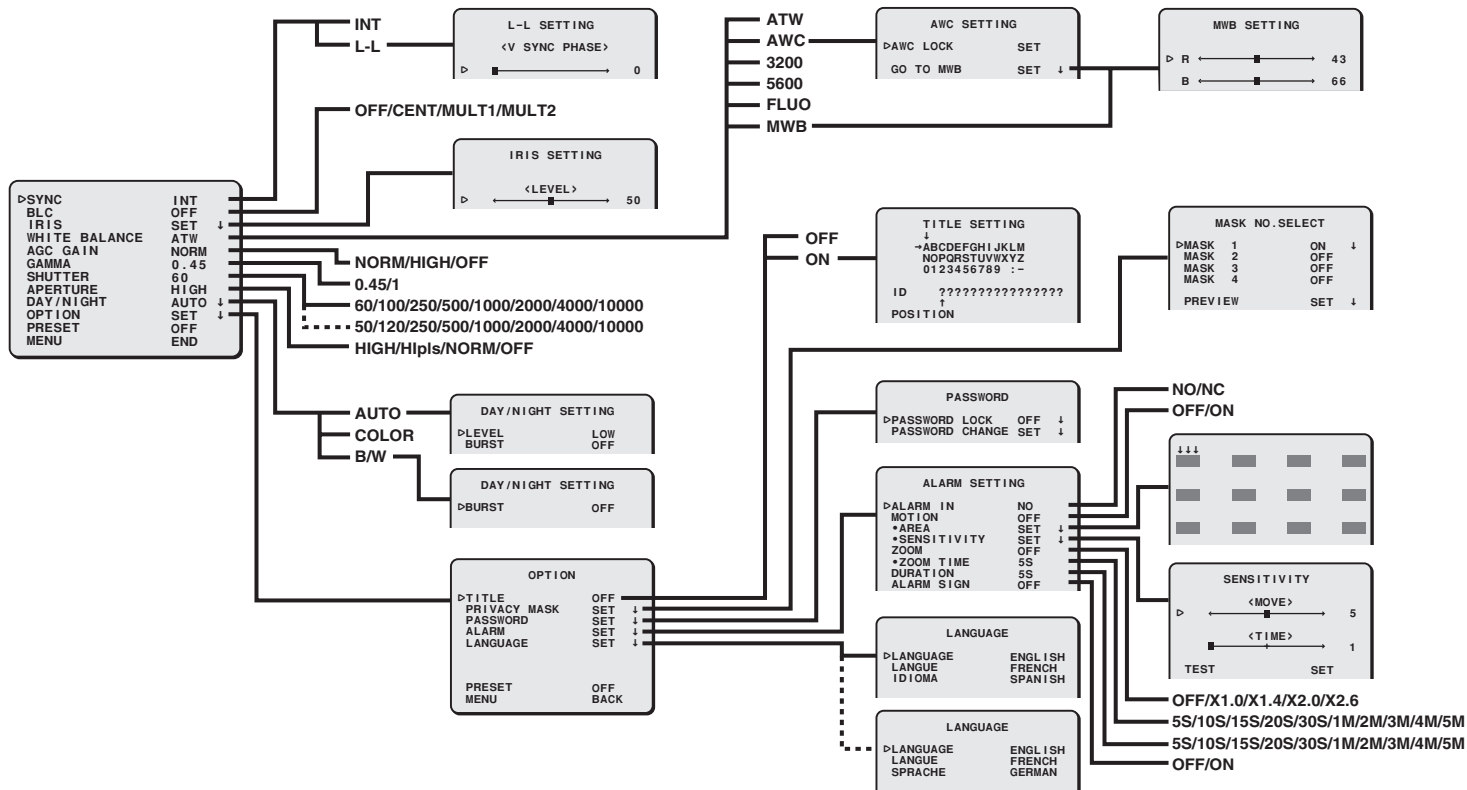
Specifications

Scanning system	VDC-DP7584/VCC-P7574: NTSC standard 525 lines, 60 fields/sec. VDC-DP7585P/VCC-P7575P: PAL standard 625 lines, 50 fields/sec.
Image sensor	1/4" interline transfer method CCD
Number of effective pixels	VDC-DP7584/VCC-P7574: 768 (H) x 494 (V) VDC-DP7585P/VCC-P7575P: 752(H) x 582(V)
Horizontal resolution	More than 520 TV lines
Minimum illumination (approx.)	VDC-DP7584/VDC-DP7585P: Gain high: 0.06 lx (F 1.9, B/W mode), 1.2 lx (F1.9, color mode) VCC-P7574/VCC-P7575P: Gain high: 1.9 lx (F 1.9)
Video output	1.0 V(p-p)/75 Ω, composite, BNC
Video S/N ratio	More than 48 dB (AGC OFF: More than 50 dB)
Lens	Built-in motorized zoom pan focus auto iris lens, f=2.8 - 7.3 mm (2.6x), F=1.9 - 3.0
Pan/Tilt adjustment	Pan: Approx. 330 degrees, Tilt: 0 - 90 degrees (On the ceiling) Pan: Approx. 180 degrees, Tilt: 0 - 90 degrees (On the wall)
Backlight compensation	OFF, Multi-spot metering (High/Normal), Center zone metering
White balance	Auto-Tracing White balance (ATW), One-push (AWC), Manual White Balance (MWB), Halogen light or incandescent lamp, etc. (3200), Daytime sunlight (5600), Fluorescent lamp (FLUO)
Gain control	Normal/High/OFF
Electronic shutter	VDC-DP7584/VCC-P7574: 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 sec. VDC-DP7585P/VCC-P7575P: 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 sec.
Gamma	0.45/1
Aperture compensation	High/High plus/Normal/OFF
Sync system	Internal sync/Line lock
Day/Night mode	VDC-DP7584/VDC-DP7585P: Auto (High/Low), Color, B/W, External control
Camera title	OFF/ON, Up to 16 characters, adjustable title position

Privacy masking	OFF/ON, Max. 4 masked locations
Alarm input	External x 1, NO/NC selectable, with alarm zoom function
Motion detector	OFF/ON, Motion zoom function
Communications	Simplified controller (VAC-70: Separately ordered) supported VDC-DP7584/VDC-DP7585P: SSP/Category 5 LAN cable (VA-50ST: Option board) Network (VA-50LAN: Option board)
Operating Environment	Temperature: -10°C - +50°C (14°F - 122°F) • VDC-DP7584/VDC-DP7585P: When heater (VA-50H: Option board) is used (with power source connected): -30°C - +50°C (-22°F - 122°F) Humidity: less than 90 % RH (no condensation)
Power supply	VDC-DP7584/VCC-P7574: 24 V AC ±10%, 60 Hz/ 12 - 15 V DC VDC-DP7585P/VCC-P7575P: 24 V AC ±10%, 50 Hz/ 12 - 15 V DC
Power consumption (approx.)	3.5 W VDC-DP7584/VDC-DP7585P: 9.5 W (with options) Max. 23.0 W (with heater turned on: VA-50H, option board)
Dimensions: mm (inch)	VDC-DP7584/VDC-DP7585P: Base: 162.0 (6.4) x H114.8 (4.5), Dome: 100.5 (4.0) VCC-P7574/VCC-P7575P: Base: 150.6 (6.0) x H103.5 (4.2), Dome: 99.8 (4.0)
Weight (approx.)	VDC-DP7584/VDC-DP7585P: 1.5 kg (52.9 oz) (without options) VCC-P7574/VCC-P7575P: 0.6 kg (21.2 oz)

- The appearance and specifications of the product are subject to change without notice.

Screen Sequence



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1AC6P1P3024--
L5BH2/US, XE, L5BK2/US, XE (0206KP-SY)

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